Site: The Fields Neighborhood Park Inspection Date: 10/07/2021

Background: The Fields Neighborhood Park is a municipal park located in NW Portland. Site soils contain elevated concentrations of petroleum hydrocarbons, lead, and polynuclear aromatic hydrocarbons. The selected remedial action for The Fields Neighborhood Park is an engineered soil cap with a geotextile fabric marker and either two (2) feet of clean soil or concrete (*e.g.,* structure foundations, pathways, and sidewalks). This inspection report was completed to assess the condition of the capped area which includes the entire park (*i.e.,* landscaped soil, structure foundations, perimeter sidewalks, internal pathways, and storm water drainage features).

Location Description: (*i.e.,* boundary streets)
NW 11th, NW Overton, and NW Naito (1N1E 34BB Lot 2629)

Party Performing Inspection / Preparing Report:		**Contact Numbers:**
Bethany Nabhan	Environmental Specialist / BES	503-823-5524
John O'Donovan	Engineer III / BES	503-823-7881
Kyle DeHart	Risk Specialist II / Portland Parks & Recreation	503-502-4534

Inspection Performed For:
Portland Parks & Recreation
6437 SE Division St.
Portland, OR 97206

Hardscape Areas: Inspect the concrete foundation, sidewalks, and pathways for evidence of cracks or unusual weathering that show the potential to allow soil to migrate through the cap or allow direct exposure to soils. List observations made and area(s) requiring maintenance.

Hardscaped areas are in good condition. Based on our assessment, the cap is not compromised in the hardscape areas of the park. See attached Figure 1 and Photo Log.

Cracks, Settlement? Yes **X** No__

Location: Only minor cracking and evidence of settling was observed in the concrete sidewalks and structural foundations on the perimeter of the park. These minor cracks (generally <0.5 inches) do not penetrate the cap. Cracks were observed along the asphalt path that have been observed in previous inspections. These cracks do not penetrate the cap, but the cracks do appear to make it through the pathway pavement in a few locations. Separation at the cracks was not observed. One (1) brick pathway is separating slightly but the separation has not changed in the past few years. Damage does not appear to penetrate the cap. No new damage was observed during this year's inspection.

Maintenance required? Yes __ No **X**

Holes, Penetrations? Yes__ No **X**

Location: None

Maintenance required? Yes__ No **X**

Landscape Areas: Inspect landscape areas for evidence of holes, animal burrows, or cracks that could expose the underlying soil. List observations made and area(s) requiring maintenance.

Landscaped areas, including the central grass area, other areas with plantings, as well as the dog off-leash area in the northern end of the park and the children's playground in the southern end of the park, were inspected for holes, cracks, and visual evidence of exposed demarcation geotextile fabric. Two (2) holes, appearing to be dog dig holes, were observed in the central grass area. These holes were approximately 0.5-1 ft in diameter and less than 4 inches deep. No other damage was observed in the landscaped areas. The dog off-leash area and the children's playground were both in good condition and no damage was observed. Evidence of animal burrows were not observed this year and Parks staff continue to control for rodents in the park. See attached Figure 1 and Photo Log.

Exposed Soil or Fabric? Yes__ No **X**

Maintenance required? Yes **X** No __

The holes noted above were backfilled by Parks staff to maintain the two (2) foot cap. A receipt for the source of the fill soil and laboratory data from BES's Water Pollution Control Lab demonstrating the soil is free of contaminants of concern for the site are attached. This is the same material that was used to fill in last year's dog dig holes. Parks re-tested the material and confirmed it to be free from petroleum hydrocarbon contamination. A receipt for the sandy loam that was used as backfill and the laboratory data are attached to this report. See attached Figure 1 and Photo Log.

Surface Water Drainage Features: Inspect storm water drainage paths and catch basins for evidence of blockage by debris or erosion damage caused by inadequate drainage control. List observations made and area(s) requiring maintenance.

Storm water drainage paths and catch basins were clear and functional during the inspection.

Groundwater Seepage Areas: Note any evidence of groundwater seepage areas and associated problems.

No groundwater seepage areas were observed during the inspection

Additional Comments:
Photographs have been taken of all areas of concern to document the condition of the cap. Photographic evidence includes pictures of any damage and repairs performed.

Please see attached Photo Locations Map and Photo Log.

Send one copy of completed Inspection Report, with supporting documentation including photographs and maintenance and repair records to:

Oregon Department of Environmental Quality
NW Region UST Cleanups & Environmental Cleanup Programs
700 NE Multnomah St., Suite #600
Portland, OR 97232
ATTN: Rebecca Wells-Albers

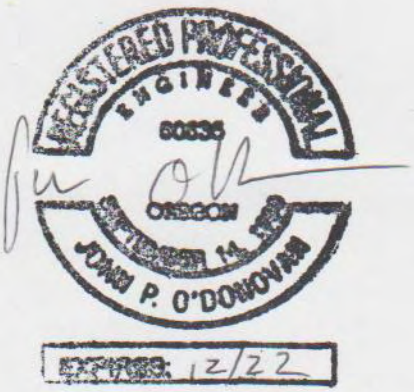

Photo Point 1 – minor crack in curb has not changed since last year

Photo Point 2 – hairline crack in concrete has not changed since last year

Photo Point 3 – Cracks in concrete panel near the Portland Loo

Photo Point 3 – Minor crack in concrete panel near tree well and Portland Loo

Photo Point 4 – Crack in concrete panel appears the same as last year

Photo Point 5 – Hairline crack in concrete panel

Photo Point 6 – Caulking along seam showing slight separation but in fair condition. No danger to the cap

Photo Point 7 – Separation in bricks appears the same as last year's inspection.

Photo Point 8 – Minor cracks in corners of concrete panels

Photo Point 9 – Crack in driveway panel appears the same as last year's inspection

Photo Point 10 – crack in curb, no risk to cap

Photo Point 11 – Well monument in good condition

Photo Point 12 – Minor crack in concrete panels, no risk to cap.

Photo Point 13 – Vector control continues to be used to control rodents. Several vector control boxes are located around the park. No burrow holes were observed in landscaped areas.

Photo Point 14 – Crack in concrete at bottom of stairs looks the same as last year's inspection

Photo Point 15 – Seams in walkway have not changed since last year's inspection

Photo Point 16 – Cracks in cement border in play area. No risk to cap.

Photo Point 17 – Playground area in great condition.

Photo Point 18 – Typical wear/weathering of asphalt path. No risk to cap.

Photo Point 19 – Slight panel uplift along asphalt path

Photo Point 20 - Typical wear/weathering of asphalt path. No risk to cap.

Photo Point 21 – minor cracks in pathway. Does not pose risk to cap.

Photo Point 22 – Thin cracks in pathway

Photo Point 22 – Thin cracks in pathway

Photo Point 23 - crack in asphalt path. No risk to cap.

Photo Point 24 – Dog dig hole, approx. 3 inches deep. **Photo of restoration below**

Photo Point 25 – Dog dig hole, less than 3 inches deep. **Photo of restoration below**

Photo Point 26 – Crack in concrete near vault

Photo Point 27 – Crack in concrete near curb. No risk to cap.

Photo Point 28 – cracks in curb near tree well. No risk to cap.

Photo Point 29 – uplift of bricks near tree well.

Photo Point 30 – Crack in brick near curb

Photo Point 31 – very minor crack in concrete near vault

Photo Point 32 – caulking in seam in fair condition, looks the same as last year inspection

Photo Point 33 – Dog park in excellent condition

Photo Point 34 – crack in concrete at bottom of stairs looks the same as last year inspection

Photo Point 35 – seam appears the same as last year inspection

Photo Point 36 – seam in fair condition. No risk to cap.

Photo Point 37 – well monument in good condition

Photo Point 38 – crack in asphalt walkway. Does not penetrate cap.

Photo Point 39 – Crack in hardscape side path

Photo Point 40 – minor crack in edge of asphalt path panel

Photo Point 41 – minor cracks and weathering along path

Photo Point 42 – minor cracks and weathering along path

PR00122348 29
DPO 22224187
MD 5000548165

LONNIE ENDICOTT EXCAVATING

P.O. BOX 578
CARLTON, OR 97111
(503) 852-6900 • (503) 852-6147

Invoice

NAME: City of Portland — DATE: 9-12-17

ADDRESS: Washington Park
6437 SE Division PDX — PHONE 503 823 3635

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D	
Dan						

QTY.	DESCRIPTION	AMOUNT
1 ld	Sandy loam	$285.00
	WO # 261411	
	CAT # 204	
	CC # 8PRPT cc910040	
	ACCT # 532600	
	TOTAL # 285.00	
	INITIALS [illegible]	
	TAX	
	TOTAL	$285.00

RECEIVED BY

11242

THANK YOU

All claims and returned goods MUST be accompanied by this bill.

City of Portland
Water Pollution Control Laboratory
6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656
ORELAP Certification ID 4023

LABORATORY ANALYSIS REPORT

Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Project Mgr:	Bethany Nabhan
Received:	11/4/20 15:00		
Submitted By:	CSA		

Sample	Laboratory ID	Matrix	Type	Sample Collection Date Start	Sample Collection Date End	Qualifier
WAPK Sandy Loam 1	W20K042-01	Soil	Composite	11/04/20 13:40	11/04/20 13:40	
WAPK Sandy Loam 2	W20K042-02	Soil	Composite	11/04/20 13:50	11/04/20 13:50	

Analyte	Result	Units	MRL	Dil.	Batch	Prepared	Analyzed	Method	Qualifier
General Chemistry									
Total Solids									
WAPK Sandy Loam 1 : W20K042-01									
Total solids	**87.0**	% W/W	0.01		B20K070	11/05/20	11/06/20	SM 2540G	
WAPK Sandy Loam 2 : W20K042-02									
Total solids	**85.6**	% W/W	0.01		B20K070	11/05/20	11/06/20	SM 2540G	
Total Metals									
Total Metals by ICPMS									
WAPK Sandy Loam 1 : W20K042-01									
Cadmium	**0.208**	mg/kg dry	0.065	20	B20K144	11/09/20	11/09/20	EPA 6020	
Chromium	**29.4**	mg/kg dry	0.130	20	B20K144	11/09/20	11/09/20	EPA 6020	
Lead	**5.79**	mg/kg dry	0.260	20	B20K144	11/09/20	11/09/20	EPA 6020	
WAPK Sandy Loam 2 : W20K042-02									
Cadmium	**0.123**	mg/kg dry	0.063	20	B20K144	11/09/20	11/09/20	EPA 6020	
Chromium	**31.4**	mg/kg dry	0.126	20	B20K144	11/09/20	11/09/20	EPA 6020	
Lead	**4.96**	mg/kg dry	0.253	20	B20K144	11/09/20	11/09/20	EPA 6020	

Reported: 12/01/20 14:15

Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

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Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Analyte	Result	Units	MRL	Dil.	Batch	Prepared	Analyzed	Method	Qualifier
Fuels									
Diesel/Oil Hydrocarbons by GC-FID									
WAPK Sandy Loam 1 : W20K042-01									F7
Diesel	ND	mg/kg dry	28	1	B20K075	11/05/20	11/05/20	NWTPH-Dx	
Lube oil	ND	mg/kg dry	56	1	B20K075	11/05/20	11/05/20	NWTPH-Dx	
Surrogate	***Result***		***Expected***	***%Rec***	***Limits(%)***				
2-Fluorobiphenyl	*20.7*	mg/kg dry	*22.4*	*92%*	*50-150*	*B20K075*	*11/05/20*	*11/05/20*	*NWTPH-Dx*	
WAPK Sandy Loam 2 : W20K042-02									F7
Diesel	ND	mg/kg dry	25	1	B20K075	11/05/20	11/05/20	NWTPH-Dx	
Lube oil	ND	mg/kg dry	49	1	B20K075	11/05/20	11/05/20	NWTPH-Dx	
Surrogate	***Result***		***Expected***	***%Rec***	***Limits(%)***				
2-Fluorobiphenyl	*17.6*	mg/kg dry	*19.6*	*90%*	*50-150*	*B20K075*	*11/05/20*	*11/05/20*	*NWTPH-Dx*	

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Jennifer Shackelford, Laboratory Manager

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Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Analyte	Result	Units	MRL	Dil.	Batch	Prepared	Analyzed	Method	Qualifier

Semivolatile Organics - SIM

Polynuclear Aromatic Hydrocarbons by GCMS-SIM

WAPK Sandy Loam 1 : W20K042-01

Acenaphthene	ND	ug/kg dry	22	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Acenaphthylene	ND	ug/kg dry	22	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Anthracene	ND	ug/kg dry	22	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(a)anthracene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(a)pyrene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(b)fluoranthene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(g,h,i)perylene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(k)fluoranthene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Chrysene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Dibenzo(a,h)anthracene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Fluoranthene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Fluorene	ND	ug/kg dry	22	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Indeno(1,2,3-cd)pyrene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Naphthalene	ND	ug/kg dry	45	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Phenanthrene	ND	ug/kg dry	22	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Pyrene	ND	ug/kg dry	11	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Surrogate	***Result***		***Expected***	***%Rec***	***Limits(%)***				
2-Methylnaphthalene-d10	*100*	ug/kg dry	*112*	*92%*	*31-129*	*B20K075*	*11/05/20*	*11/17/20*	*EPA 8270-SIM*
Fluoranthene-d10	*120*	ug/kg dry	*112*	*106%*	*63-132*	*B20K075*	*11/05/20*	*11/17/20*	*EPA 8270-SIM*

WAPK Sandy Loam 2 : W20K042-02

Acenaphthene	ND	ug/kg dry	20	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Acenaphthylene	ND	ug/kg dry	20	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Anthracene	ND	ug/kg dry	20	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(a)anthracene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(a)pyrene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(b)fluoranthene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(g,h,i)perylene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Benzo(k)fluoranthene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Chrysene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Dibenzo(a,h)anthracene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Fluoranthene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Fluorene	ND	ug/kg dry	20	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Indeno(1,2,3-cd)pyrene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Naphthalene	ND	ug/kg dry	39	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Phenanthrene	ND	ug/kg dry	20	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Pyrene	ND	ug/kg dry	9.8	10	B20K075	11/05/20	11/17/20	EPA 8270-SIM	
Surrogate	***Result***		***Expected***	***%Rec***	***Limits(%)***				
2-Methylnaphthalene-d10	*88*	ug/kg dry	*98.0*	*90%*	*31-129*	*B20K075*	*11/05/20*	*11/17/20*	*EPA 8270-SIM*
Fluoranthene-d10	*98*	ug/kg dry	*98.0*	*100%*	*63-132*	*B20K075*	*11/05/20*	*11/17/20*	*EPA 8270-SIM*

Reported: 12/01/20 14:15

Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

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ORELAP Certification ID 4023

Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Quality Control Report

General Chemistry - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Total Solids - Batch B20K070									
Blank (B20K070-BLK1)									
Total solids	ND	% W/W	0.01					11/05/20 :11/06/20	
Duplicate (B20K070-DUP1)			**Source: W20K037-03**						
Total solids	**97.3**	% W/W	0.01		97.3		0.02 (5)	11/05/20 :11/06/20	

Total Metals - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Total Metals by ICPMS - Batch B20K144									
Blank (B20K144-BLK1)									
Cadmium	ND	mg/kg wet	0.025					11/09/20 :11/09/20	
Chromium	ND	mg/kg wet	0.050					11/09/20 :11/09/20	
Lead	ND	mg/kg wet	0.100					11/09/20 :11/09/20	
Standard Reference Material (B20K144-SRM1)									
Cadmium	**109**	mg/kg wet	1.05	112		98% *(75-125)*		11/09/20 :11/09/20	
Chromium	**151**	mg/kg wet	2.11	166		91% *(75-125)*		11/09/20 :11/09/20	
Lead	**101**	mg/kg wet	4.22	114		89% *(75-125)*		11/09/20 :11/09/20	
Duplicate (B20K144-DUP1)			**Source: W20K042-01**						
Cadmium	**0.112**	mg/kg dry	0.060		0.208		60 (20)	11/09/20 :11/09/20	M8
Chromium	**28.9**	mg/kg dry	0.120		29.4		2 (20)	11/09/20 :11/09/20	
Lead	**5.07**	mg/kg dry	0.240		5.79		13 (20)	11/09/20 :11/09/20	
Matrix Spike (B20K144-MS1)			**Source: W20K042-01**						
Cadmium	**13.0**	mg/kg dry	0.163	13.0	0.208	98% *(75-125)*		11/09/20 :11/09/20	
Chromium	**66.6**	mg/kg dry	0.326	39.1	29.4	95% *(75-125)*		11/09/20 :11/09/20	
Lead	**65.8**	mg/kg dry	0.652	65.2	5.79	92% *(75-125)*		11/09/20 :11/09/20	

Reported: 12/01/20 14:15

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Jennifer Shackelford, Laboratory Manager

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Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Fuels - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Diesel/Oil Hydrocarbons by GC-FID - Batch B20K075									
Blank (B20K075-BLK2)									**F7**
Diesel	ND	mg/kg wet	25					11/05/20 :11/05/20	
Lube oil	ND	mg/kg wet	50					11/05/20 :11/05/20	
Surrogate									
2-Fluorobiphenyl	*17.7*	mg/kg wet		*20.0*		88% *(50-150)*		11/05/20 :11/05/20	
LCS (B20K075-BS2)									**F7**
Diesel	**428**	mg/kg wet	25	400		107% *(50-150)*		11/05/20 :11/05/20	
Lube oil	**416**	mg/kg wet	50	400		104% *(50-150)*		11/05/20 :11/05/20	
Surrogate									
2-Fluorobiphenyl	*21.7*	mg/kg wet		*20.0*		109% *(50-150)*		11/05/20 :11/05/20	
Duplicate (B20K075-DUP1)			**Source: W20K042-01**						**F7**
Diesel	ND	mg/kg dry	26		ND		(50)	11/05/20 :11/05/20	
Lube oil	ND	mg/kg dry	52		ND		(50)	11/05/20 :11/05/20	
Surrogate									
2-Fluorobiphenyl	*19.3*	mg/kg dry		*20.8*		93% *(50-150)*		11/05/20 :11/05/20	

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Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Semivolatile Organics - SIM - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec (Limits)	RPD (Limit)	Prepared: Analyzed	Qualifier
Polynuclear Aromatic Hydrocarbons by GCMS-SIM - Batch B20K075									
Blank (B20K075-BLK1)									
Acenaphthene	ND	ug/kg wet	20					11/05/20 :11/17/20	
Acenaphthylene	ND	ug/kg wet	20					11/05/20 :11/17/20	
Anthracene	ND	ug/kg wet	20					11/05/20 :11/17/20	
Benzo(a)anthracene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Benzo(a)pyrene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Benzo(b)fluoranthene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Benzo(g,h,i)perylene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Benzo(k)fluoranthene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Chrysene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Dibenzo(a,h)anthracene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Fluoranthene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Fluorene	ND	ug/kg wet	20					11/05/20 :11/17/20	
Indeno(1,2,3-cd)pyrene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Naphthalene	ND	ug/kg wet	40					11/05/20 :11/17/20	
Phenanthrene	ND	ug/kg wet	20					11/05/20 :11/17/20	
Pyrene	ND	ug/kg wet	10					11/05/20 :11/17/20	
Surrogate									
2-Methylnaphthalene-d10	*78*	ug/kg wet		*100*		78% *(31-129)*		11/05/20 :11/17/20	
Fluoranthene-d10	*110*	ug/kg wet		*100*		107% *(63-132)*		11/05/20 :11/17/20	
LCS (B20K075-BS1)									
Acenaphthene	**70.8**	ug/kg wet	20	80.0		88% *(49-122)*		11/05/20 :11/17/20	
Acenaphthylene	**74.4**	ug/kg wet	20	80.0		93% *(51-123)*		11/05/20 :11/17/20	
Anthracene	**82.4**	ug/kg wet	20	80.0		103% *(62-115)*		11/05/20 :11/17/20	
Benzo(a)anthracene	**80.8**	ug/kg wet	10	80.0		101% *(63-112)*		11/05/20 :11/17/20	
Benzo(a)pyrene	**77.6**	ug/kg wet	10	80.0		97% *(62-117)*		11/05/20 :11/17/20	
Benzo(b)fluoranthene	**67.6**	ug/kg wet	10	80.0		84% *(53-117)*		11/05/20 :11/17/20	
Benzo(g,h,i)perylene	**71.6**	ug/kg wet	10	80.0		90% *(42-128)*		11/05/20 :11/17/20	
Benzo(k)fluoranthene	**76.8**	ug/kg wet	10	80.0		96% *(53-124)*		11/05/20 :11/17/20	
Chrysene	**76.4**	ug/kg wet	10	80.0		96% *(63-119)*		11/05/20 :11/17/20	
Dibenzo(a,h)anthracene	**70.8**	ug/kg wet	10	80.0		88% *(44-129)*		11/05/20 :11/17/20	
Fluoranthene	**81.2**	ug/kg wet	10	80.0		102% *(63-115)*		11/05/20 :11/17/20	
Fluorene	**73.6**	ug/kg wet	20	80.0		92% *(58-113)*		11/05/20 :11/17/20	
Indeno(1,2,3-cd)pyrene	**71.6**	ug/kg wet	10	80.0		90% *(46-127)*		11/05/20 :11/17/20	
Naphthalene	**77.2**	ug/kg wet	40	80.0		96% *(37-118)*		11/05/20 :11/17/20	
Phenanthrene	**77.6**	ug/kg wet	20	80.0		97% *(49-119)*		11/05/20 :11/17/20	
Pyrene	**83.6**	ug/kg wet	10	80.0		104% *(63-117)*		11/05/20 :11/17/20	
Surrogate									
2-Methylnaphthalene-d10	*85*	ug/kg wet		*100*		85% *(31-129)*		11/05/20 :11/17/20	
Fluoranthene-d10	*110*	ug/kg wet		*100*		114% *(63-132)*		11/05/20 :11/17/20	

Reported: 12/01/20 14:15

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Jennifer Shackelford, Laboratory Manager

City of Portland
Water Pollution Control Laboratory
6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656
ORELAP Certification ID 4023

Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Semivolatile Organics - SIM - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Polynuclear Aromatic Hydrocarbons by GCMS-SIM - Batch B20K075									
Duplicate (B20K075-DUP2)			**Source: W20K042-01**						
Acenaphthene	ND	ug/kg dry	21		ND		(30)	11/05/20 :11/17/20	
Acenaphthylene	ND	ug/kg dry	21		ND		(30)	11/05/20 :11/17/20	
Anthracene	ND	ug/kg dry	21		ND		(30)	11/05/20 :11/17/20	
Benzo(a)anthracene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Benzo(a)pyrene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Benzo(b)fluoranthene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Benzo(g,h,i)perylene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Benzo(k)fluoranthene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Chrysene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Dibenzo(a,h)anthracene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Fluoranthene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Fluorene	ND	ug/kg dry	21		ND		(30)	11/05/20 :11/17/20	
Indeno(1,2,3-cd)pyrene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Naphthalene	ND	ug/kg dry	42		ND		(30)	11/05/20 :11/17/20	
Phenanthrene	ND	ug/kg dry	21		ND		(30)	11/05/20 :11/17/20	
Pyrene	ND	ug/kg dry	10		ND		(30)	11/05/20 :11/17/20	
Surrogate									
2-Methylnaphthalene-d10	*85*	ug/kg dry		*104*		82% *(31-129)*		11/05/20 :11/17/20	
Fluoranthene-d10	*100*	ug/kg dry		*104*		99% *(63-132)*		11/05/20 :11/17/20	
Matrix Spike (B20K075-MS1)			**Source: W20K042-01**						
Acenaphthene	**185**	ug/kg dry	22	217	ND	85% *(49-122)*		11/05/20 :11/17/20	
Acenaphthylene	**200**	ug/kg dry	22	217	ND	92% *(51-123)*		11/05/20 :11/17/20	
Anthracene	**206**	ug/kg dry	22	217	ND	95% *(62-115)*		11/05/20 :11/17/20	
Benzo(a)anthracene	**205**	ug/kg dry	11	217	ND	95% *(63-112)*		11/05/20 :11/17/20	
Benzo(a)pyrene	**192**	ug/kg dry	11	217	ND	88% *(62-117)*		11/05/20 :11/17/20	
Benzo(b)fluoranthene	**167**	ug/kg dry	11	217	ND	77% *(53-117)*		11/05/20 :11/17/20	
Benzo(g,h,i)perylene	**173**	ug/kg dry	11	217	ND	80% *(42-128)*		11/05/20 :11/17/20	
Benzo(k)fluoranthene	**189**	ug/kg dry	11	217	ND	87% *(53-124)*		11/05/20 :11/17/20	
Chrysene	**188**	ug/kg dry	11	217	ND	87% *(63-119)*		11/05/20 :11/17/20	
Dibenzo(a,h)anthracene	**177**	ug/kg dry	11	217	ND	81% *(44-129)*		11/05/20 :11/17/20	
Fluoranthene	**203**	ug/kg dry	11	217	ND	94% *(63-115)*		11/05/20 :11/17/20	
Fluorene	**179**	ug/kg dry	22	217	ND	82% *(58-113)*		11/05/20 :11/17/20	
Indeno(1,2,3-cd)pyrene	**175**	ug/kg dry	11	217	ND	81% *(46-127)*		11/05/20 :11/17/20	
Naphthalene	**192**	ug/kg dry	43	217	ND	88% *(37-118)*		11/05/20 :11/17/20	
Phenanthrene	**193**	ug/kg dry	22	217	ND	89% *(49-119)*		11/05/20 :11/17/20	
Pyrene	**209**	ug/kg dry	11	217	ND	96% *(63-117)*		11/05/20 :11/17/20	
Surrogate									
2-Methylnaphthalene-d10	*110*	ug/kg dry		*108*		102% *(31-129)*		11/05/20 :11/17/20	
Fluoranthene-d10	*120*	ug/kg dry		*108*		107% *(63-132)*		11/05/20 :11/17/20	

Reported: 12/01/20 14:15

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Jennifer Shackelford, Laboratory Manager

City of Portland
Water Pollution Control Laboratory
6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656
ORELAP Certification ID 4023

Project:	**The Fields Park & Tanner Springs Park Inspections**	Client:	Coordinated Site Analysis
Work Order:	**W20K042**	Received:	11/04/20 15:00

Qualifiers

F7	This sample underwent silica gel clean-up.
M8	The matrix duplicate control limit is not applicable at concentrations less than 5 times the reporting limit.

Definitions

DET	Analyte Detected	ND	Analyte Not Detected at or above the reporting limit
MRL	Method Reporting Limit	MDL	Method Detection Limit
NR	Not Reportable	dry	Sample results reported on a dry weight basis
% Rec.	Percent Recovery	RPD	Relative Percent Difference
*	This analyte is not certified under NELAP		

Reported: 12/01/20 14:15

Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

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Date: 11/4/2020

Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, Oregon 97203-4552
Sample Custodian: (503) 823-5696
General Lab: (503) 823-5681

City of Portland Chain-of-Custody

Bureau of Environmental Services

Lab Work Order #: W20K042
Collected By: BLN
Contact Info: 3-1144

Client Name: **Coordinated Site Analysis** Project Number (if applicable): 7ESPKLB000048
Project Name: The Fields Park + Tanner Springs Park Inspect. CSA Contact Name: Bethany Nabhan

Requested Analyses

Follow-up Tests:
- [x] Run TCLP metals if limit exceeded
- [ ] Run NWTPH-Dx and NWTPH-Gx if detects on NWTPH-HCID
- [ ] Run PAHs if detects on NWTPH-Dx
- [ ] Run VOCs if detects on NWTPH-Gx

Turn-Around-Time Request:
Need by Date: _____
- [x] Standard (10 business days)
- [ ] Rush (5 business days)
- [ ] Other: _____

Lab Number	Sample Name	Sample Date	Sample Time	Grab or Comp	Sample Matrix	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	PCB Aroclors (low-level)	PAHs	Priority Pollutant 13 Metals	RCRA 8 Metals	Total Metals	(As, Cd, Cr, Cu, Pb, Hg, Zn)	Total Metals (Cd, Cr, Pb)	VOCs	TOC	HOLD	# of Containers	Remarks
01	WAPK Sandy Loam 1	11/4/20	13:40	C	S		●			●					●				3	
02	WAPK Sandy Loam 2	11/4/20	13:50	C	S		●			●					●				3	

Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Bethany Nabhan	Signature:	Signature:	Signature:
Printed Name: Bethany Nabhan	Printed Name: Matt Clark	Printed Name:	Printed Name:
Date: 11/4/20	Date: 11/4/20	Date:	Date:
Time: BLN 15:00	Time: 1500	Time:	Time:

CSA Standard WPCL COC

WPCL Cooler Receipt Form

Work Order Number: W20K042 **Cooler Receipt Form Filled Out By:** HC

Project: The Fields Park + Tanner Springs Park Inspect.

Received on ice: (YES) **NO** (circle one) *[If directly from field, indicate here:____]*

Sample(s) Received From: CBWTP fridge____ Client ✓ Courier____

Temperature (°C): 1.6

	Yes	No	N/A
Is the COC present and signed?	✓		
Are sample bottles intact?	✓		
Do the COC and sample labels match?	✓		
Are the appropriate containers used?	✓		
Are samples appropriately preserved?			✓
Do VOA vials or alkalinity bottles have Headspace? (circle which this applies to)			✓
Are samples received within holding times (except for pH and residual chlorine)?	✓		

Pres. #	Preservative	LIMS ID	Standard Preservation Amounts
1	**HNO_3 (1:1) to pH <2**		0.5mL/250mL; 1.0mL/500mL; 4-5 drops/50mL centrifuge tube
2	**H_2SO_4 (18N) to pH <2**		0.4mL/250mL; 0.8mL/500mL ; 1.6mL/1000mL
3	**HCl (1:1) to pH <2**		1.0mL/500mL; 2.0mL/1000mL
4	**HCl (1:1) to pH 2-3**		For TOC: 2-5 drops/250mL
5	**NaOH (pellets) to pH >12**		4-10 pellets/500mL; 8-20 pellets/1000mL

Date	Time	Analyst	Sample LIMS ID	Bottle ID	Pres. #	Comments

Comments:_____

City of Portland
Water Pollution Control Laboratory
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ORELAP Certification ID 4023

LABORATORY ANALYSIS REPORT

Project:	**Parks Bureau Misc**	Client:	Parks Bureau
Work Order:	**W21I080**	Project Mgr:	Peter Abrams
Received:	9/8/21 15:39		
Submitted By:	Client		

Sample	Laboratory ID	Matrix	Type	Sample Collection Date Start	End	Qualifier
SWGSL-1	W21I080-01	Soil	Composite	09/08/21 02:40	09/08/21 02:40	

SWGSL-1 : W21I080-01

Analyte	Result	Units	MRL	Dil.	Batch	Prepared	Analyzed	Method	Qualifier
General Chemistry									
Total solids	**94.1**	% W/W	0.01		B21I160	09/10/21	09/11/21	SM 2540G	
Total Metals									
Total Metals by ICPMS									
Arsenic	**3.17**	mg/kg dry	0.058	20	B21I203	09/14/21	09/15/21	EPA 6020	
Barium	**179**	mg/kg dry	1.17	20	B21I203	09/14/21	09/15/21	EPA 6020	
Cadmium	**0.101**	mg/kg dry	0.058	20	B21I203	09/14/21	09/15/21	EPA 6020	
Chromium	**33.0**	mg/kg dry	0.117	20	B21I203	09/14/21	09/15/21	EPA 6020	
Lead	**4.98**	mg/kg dry	0.233	20	B21I203	09/14/21	09/15/21	EPA 6020	
Mercury	**0.0138**	mg/kg dry	0.00874	20	B21I203	09/14/21	09/15/21	EPA 6020	
Selenium	ND	mg/kg dry	1.17	20	B21I203	09/14/21	09/15/21	EPA 6020	
Silver	ND	mg/kg dry	0.058	20	B21I203	09/14/21	09/15/21	EPA 6020	
Fuels									
Hydrocarbon Scan by GC-FID									
Gasoline	ND	mg/kg dry	20	1	B21I144	09/09/21	09/09/21	NWTPH-HCID	
Diesel	ND	mg/kg dry	51	1	B21I144	09/09/21	09/09/21	NWTPH-HCID	
Lube oil	ND	mg/kg dry	102	1	B21I144	09/09/21	09/09/21	NWTPH-HCID	

Surrogate	*Result*		*Expected*	*%Rec*	*Limits(%)*				
2-Fluorobiphenyl	*10.2*	mg/kg dry	*10.2*	*100%*	*50-150*	*B21I144*	*09/09/21*	*09/09/21*	*NWTPH-HCID*

Reported: 09/23/21 07:10

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Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

City of Portland
Water Pollution Control Laboratory
6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656
ORELAP Certification ID 4023

Project:	**Parks Bureau Misc**	Client:	Parks Bureau
Work Order:	**W21I080**	Received:	09/08/21 15:39

Quality Control Report

General Chemistry - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Total Solids - Batch B21I160									
Blank (B21I160-BLK1)									
Total solids	ND	% W/W	0.01					09/10/21 :09/11/21	
Duplicate (B21I160-DUP1)			**Source: W21I080-01**						
Total solids	**94.1**	% W/W	0.01		94.1		0.02 (5)	09/10/21 :09/11/21	

Total Metals - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec *(Limits)*	RPD *(Limit)*	Prepared: Analyzed	Qualifier
Total Metals by ICPMS - Batch B21I203									
Blank (B21I203-BLK1)									
Arsenic	ND	mg/kg wet	0.025					09/14/21 :09/15/21	
Barium	ND	mg/kg wet	0.500					09/14/21 :09/15/21	
Cadmium	ND	mg/kg wet	0.025					09/14/21 :09/15/21	
Chromium	ND	mg/kg wet	0.050					09/14/21 :09/15/21	
Lead	ND	mg/kg wet	0.100					09/14/21 :09/15/21	
Mercury	ND	mg/kg wet	0.00375					09/14/21 :09/15/21	
Selenium	ND	mg/kg wet	0.500					09/14/21 :09/15/21	
Silver	ND	mg/kg wet	0.025					09/14/21 :09/15/21	
Standard Reference Material (B21I203-SRM1)									
Arsenic	**91.7**	mg/kg wet	1.06	102		90% *(75-125)*		09/14/21 :09/15/21	
Barium	**308**	mg/kg wet	21.2	341		90% *(75-125)*		09/14/21 :09/15/21	
Cadmium	**107**	mg/kg wet	1.06	112		95% *(75-125)*		09/14/21 :09/15/21	
Chromium	**145**	mg/kg wet	2.12	166		87% *(75-125)*		09/14/21 :09/15/21	
Lead	**97.7**	mg/kg wet	4.25	114		86% *(75-125)*		09/14/21 :09/15/21	
Mercury	**4.95**	mg/kg wet	0.159	6.25		79% *(75-125)*		09/14/21 :09/15/21	
Selenium	**93.7**	mg/kg wet	21.2	99.4		94% *(75-125)*		09/14/21 :09/15/21	
Silver	**31.3**	mg/kg wet	1.06	34.9		90% *(75-125)*		09/14/21 :09/15/21	
Duplicate (B21I203-DUP1)			**Source: W21I116-01**						
Arsenic	**4.84**	mg/kg dry	0.091		4.87		0.6 (20)	09/14/21 :09/15/21	
Barium	**193**	mg/kg dry	1.82		187		3 (20)	09/14/21 :09/15/21	
Cadmium	**0.170**	mg/kg dry	0.091		0.170		0.02 (20)	09/14/21 :09/15/21	
Chromium	**26.3**	mg/kg dry	0.182		25.4		3 (20)	09/14/21 :09/15/21	
Lead	**8.80**	mg/kg dry	0.364		8.78		0.2 (20)	09/14/21 :09/15/21	
Mercury	**0.0169**	mg/kg dry	0.0136		0.0174		3 (20)	09/14/21 :09/15/21	
Selenium	ND	mg/kg dry	1.82		ND		(20)	09/14/21 :09/15/21	

Reported: 09/23/21 07:10

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Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

City of Portland
Water Pollution Control Laboratory
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ORELAP Certification ID 4023

Project:	**Parks Bureau Misc**	Client:	Parks Bureau
Work Order:	**W21I080**	Received:	09/08/21 15:39

Total Metals - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec (Limits)	RPD (Limit)	Prepared: Analyzed	Qualifier
Total Metals by ICPMS - Batch B21I203									
Duplicate (B21I203-DUP1)			**Source: W21I116-01**						
Silver	ND	mg/kg dry	0.091		ND		(20)	09/14/21 :09/15/21	
Matrix Spike (B21I203-MS1)			**Source: W21I116-01**						
Arsenic	**23.1**	mg/kg dry	0.246	19.6	4.87	93% *(75-125)*		09/14/21 :09/15/21	
Barium	**500**	mg/kg dry	4.91	295	187	106% *(75-125)*		09/14/21 :09/15/21	
Cadmium	**18.9**	mg/kg dry	0.246	19.6	ND	96% *(75-125)*		09/14/21 :09/15/21	
Chromium	**86.3**	mg/kg dry	0.491	58.9	25.4	103% *(75-125)*		09/14/21 :09/15/21	
Lead	**97.8**	mg/kg dry	0.982	98.2	8.78	91% *(75-125)*		09/14/21 :09/15/21	
Mercury	**0.920**	mg/kg dry	0.0368	0.982	ND	94% *(75-125)*		09/14/21 :09/15/21	
Selenium	**98.6**	mg/kg dry	4.91	98.2	ND	100% *(75-125)*		09/14/21 :09/15/21	
Silver	**20.0**	mg/kg dry	0.246	19.6	ND	102% *(75-125)*		09/14/21 :09/15/21	

Fuels - QC

Analyte	Result	Units	MRL	Spike Level	Source Result	%Rec (Limits)	RPD (Limit)	Prepared: Analyzed	Qualifier
Hydrocarbon Scan by GC-FID - Batch B21I144									
Blank (B21I144-BLK1)									
Gasoline	ND	mg/kg wet	17					09/09/21 :09/09/21	
Diesel	ND	mg/kg wet	42					09/09/21 :09/09/21	
Lube oil	ND	mg/kg wet	83					09/09/21 :09/09/21	
Surrogate									
2-Fluorobiphenyl	*8.23*	mg/kg wet		*8.33*		99% *(50-150)*		09/09/21 :09/09/21	
Duplicate (B21I144-DUP1)			**Source: W21I080-01**						
Gasoline	ND	mg/kg dry	21		ND			09/09/21 :09/09/21	
Diesel	ND	mg/kg dry	51		ND			09/09/21 :09/09/21	
Lube oil	ND	mg/kg dry	103		ND			09/09/21 :09/09/21	
Surrogate									
2-Fluorobiphenyl	*9.41*	mg/kg dry		*10.3*		92% *(50-150)*		09/09/21 :09/09/21	

Definitions

DET	Analyte Detected	ND	Analyte Not Detected at or above the reporting limit
MRL	Method Reporting Limit	MDL	Method Detection Limit
NR	Not Reportable	dry	Sample results reported on a dry weight basis
% Rec.	Percent Recovery	RPD	Relative Percent Difference
*	This analyte is not certified under NELAP		

Reported: 09/23/21 07:10

Jennifer Shackelford

Jennifer Shackelford, Laboratory Manager

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Date: 9/8/2021

Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, Oregon 97203-4552
Sample Custodian: (503) 823-5696
General Lab: (503) 823-5681

City of Portland Chain-of-Custody

Bureau of Environmental Services

Lab Work Order #: W21I080

Collected By: Kyle DeHart

Contact Info: (503) 502-4534

Client Name: **Parks Bureau**

Project Number (if applicable): PKWC000016

Project Name: **Parks Bureau Misc**

Parks Contact Name: **Kyle DeHart**

Requested Analyses

Follow-up Tests:
[1]Run TCLP metals if limit exceeded
[2]Run NWTPH-Dx and NWTPH-Gx if detects on NWTPH-HCID
Run PAHs if detects on NWTPH-Dx
Run VOCs if detects on NWTPH-Gx

Turn-Around-Time Request:
Need by Date: N/A
- [x] Standard (10 business days)
- [ ] Rush (5 business days)
- [ ] Other:

Lab Number	Sample Name	Sample Date	Sample Time	Sample Type	Sample Matrix	RCRA 8 Metals[1]	NWTPH-HCID[2]	HOLD	# of Containers	Remarks
01	SWGSL-1	9/8/21	2:40pm	Comp	Soil	X	X		6	

Sample Type - G=Grab, C=Composite, FD=Field Duplicate, FDB=Field Decon Blank, EQB=Equipment Blank, TB=Trip Blank
Sample Matrix - DI = DI Water, G = Gas, GW = Groundwater, IWW = Industrial Wastewater, MWW = Municipal Wastewater, PC = Paint Chips, SED = Sediment, SL = Soil, STW = Stormwater, SFW = Surface water

Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Printed Name: Kyle DeHart	Printed Name: Susanna Blunt	Printed Name:	Printed Name:
Date: 9/8/2021	Date: 9/8/21	Date:	Date:
Time: 3:39pm	Time: 1539	Time:	Time:

WPCL Cooler Receipt Form

Work Order Number: W21I080 **Cooler Receipt Form Filled Out By:** SB

Project: Parks Bureau Misc.

Received on ice: (YES) NO (circle one) *[If directly from field, indicate here: ✓]*

Sample(s) Received From: CBWTP fridge_____ Client ✓ Courier_____ SR fridge _____

Temperature (°C): 2.0

	Yes	No	N/A
Is the COC present and signed?	✓		
Are sample bottles intact?	✓		
Do the COC and sample labels match?	✓		
Are the appropriate containers used?	✓		
Are samples appropriately preserved?	✓*		
Are VOA vials completely filled (zero Headspace)?			✓
Are alkalinity bottles completely filled (zero Headspace)? Note if filled in lab.			✓
Are samples received within holding times (except for pH and residual chlorine)?	✓		

Pres. #	Preservative	LIMS ID	Standard Preservation Amounts
1	HNO_3 (1:1) to pH <2		0.5mL/250mL; 1.0mL/500mL; 4-5 drops/50mL centrifuge tube
2	H_2SO_4 (18N) to pH <2		0.4mL/250mL; 0.8mL/500mL ; 1.6mL/1000mL
3	HCl (1:1) to pH <2		1.0mL/500mL; 2.0mL/1000mL
4	HCl (1:1) to pH 2-3		For TOC: 2-5 drops/250mL
5	NaOH to pH >12		4-10 pellets/500mL; 4 mL 10N/1000mL

Date	Time	Analyst	Sample LIMS ID	Bottle ID	Pres. #	Comments

Comments: * VOA vials pre-preserved in House.

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